

CLAIMS

1. A receptacle for waste, the receptacle including an elongated body member having a first end for locating on or in the ground and a second end with an opening therein for receipt of waste, said second end including a throat of reduced dimension to that of said body member.
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2. A receptacle for waste according to claim 1, wherein said body member is substantially cylindrically shaped.
3. A receptacle for waste according to claim 1 or claim 2, wherein said body member is tapered.
- 10 4. A receptacle for waste according to claim 3, wherein said taper is in the region of said first end of said body member.
5. A receptacle for waste according to any preceding claim, wherein said body member further includes inlet means to permit atmospheric air to be drawn into said body member on the application of a vacuum to said body member, wherein
15 contents of the receptacle are capable of being drawn from said receptacle on the application of said vacuum to said body member by entraining with said atmospheric air drawn into said body member by said vacuum.
6. A receptacle for waste according to claim 5, wherein said vacuum is applied in the region of said opening, and contents of the receptacle are capable of being drawn
20 from said receptacle through said opening.
7. A receptacle for waste, the receptacle including an elongated body member having a first end for locating on or in the ground and a second end with an opening therein for receipt of waste, said body member further including inlet means to permit atmospheric air to be drawn into said body member on the application of a
25 vacuum to said body member, wherein contents of the receptacle are capable of being drawn from said receptacle on the application of said vacuum to said body

member by entraining with said atmospheric air drawn into said body member by said vacuum.

8. A receptacle for waste according to claim 7, wherein said body member is substantially cylindrically shaped.

5 9. A receptacle for waste according to claim 7 or claim 8, wherein said body member is tapered.

10. A receptacle for waste according to claim 9, wherein said taper is in the region of said first end of said body member.

10 11. A receptacle for waste according to any one of claims 7 to 10, wherein said vacuum is applied in the region of said opening, and contents of the receptacle are capable of being drawn from said receptacle through said opening.

12. A receptacle for waste according to any preceding claim, wherein said body member includes a first chamber and a second chamber in fluid communication with said first chamber, said second chamber in fluid communication with the interior of said receptacle, said first chamber having inlet means to permit atmospheric air to be drawn into said first chamber on the application of a vacuum to said body member, and said second chamber having inlet means to permit atmospheric air from said first chamber to be drawn into said second chamber on the application of said vacuum to said body member, wherein contents of the receptacle are capable of being drawn from said receptacle on the application of said vacuum to said body member by entraining with said atmospheric air drawn through said chambers into said receptacle by said vacuum.

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13. A receptacle for waste according to any preceding claim, wherein said body member includes a first chamber and a second chamber disposed at least partly within said first chamber, said second chamber in fluid communication with the interior of said receptacle, said first chamber having inlet means to permit

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atmospheric air to be drawn into said first chamber on the application of a vacuum to said body member, and said second chamber having inlet means to permit atmospheric air from said first chamber to be drawn into said second chamber on the application of said vacuum to said body member, wherein contents of the receptacle are capable of being drawn from said receptacle on the application of said vacuum to said body member by entraining with said atmospheric air drawn through said chambers into said receptacle by said vacuum.

14. A receptacle for waste according to claim 12 or claim 13, wherein said second chamber is tapered.

15. A receptacle for waste according to claim 14, wherein said taper is in the region of said first end of said body member.

16. A receptacle for waste, the receptacle including an elongated body member having a first end for locating on or in the ground and a second end with an opening therein for receipt of waste, said body member having a first chamber and a second chamber in fluid communication with said first chamber, said second chamber in fluid communication with the interior of said receptacle, said first chamber having inlet means to permit atmospheric air to be drawn into said first chamber on the application of a vacuum to said body member, and said second chamber having inlet means to permit atmospheric air from said first chamber to be drawn into said second chamber on the application of said vacuum to said body member, wherein contents of the receptacle are capable of being drawn from said receptacle on the application of said vacuum to said body member by entraining with said atmospheric air drawn through said chambers into said receptacle by said vacuum.

17. A receptacle for waste according to claim 16, wherein said second chamber is disposed at least partly within said first chamber.

18. A receptacle for waste according to claim 16 or claim 17, wherein said second chamber is tapered.
19. A receptacle for waste according to claim 19, wherein said taper is in the region of said first end of said body member.
- 5 20. A receptacle for waste, said receptacle including:
- (c) a body member having a first end for locating on or in the ground and a second end with an opening therein for receipt of waste;
 - (d) inlet means in the body member through which air from the atmosphere can be drawn in response to a vacuum applied at the opening; and
 - 10 (e) air velocity increasing means for increasing the velocity of the air once inside the body member to assist in drawing waste contained in said receptacle out through said opening.
21. A receptacle according to claim 20, wherein said air velocity increasing means is a venturi device located in the body member.
- 15 22. A receptacle according to claim 21, wherein the venturi device comprise a dividing member that divides the body member along at least part of its length into an inner region and an outer region, the dividing member having an aperture, such that the velocity of air moving in response to the vacuum from said outer region to said inner region increases due to a venturi effect, as it passes through said
- 20 aperture.
23. A receptacle according to claim 22, wherein said dividing member is substantially conical shaped.
24. A receptacle according to claim 22 or claim 23, wherein said aperture comprises a plurality of circumferentially spaced openings.
- 25 25. A receptacle according to claim 24, wherein said openings are located at the base of said aperture and are substantially mouse-hole shaped.
26. A receptacle according to any one of claims 20 to 25, wherein said body member is divided into said inner region and said outer region along a portion of its length

commencing at the second end with the apertures being located below the inlet means.

27. A receptacle according to any one of claims 20 to 26, wherein the air velocity increasing means member forms part of or is a separate unit that is insertable into the body member.

28. A receptacle according to claim 27, wherein the unit comprises a cylindrical portion having a diameter of slightly less than the body member such that the portion can be tightly fitted into the body member, and a conical portion extending from the cylindrical portion, the conical portion when inserted into the body member dividing the body member into the inner region and the outer region.

29. A receptacle according to any one of claims 20 to 28, wherein the inlet means is at least one row of circumferentially spaced holes in the body member.

30. A receptacle according to claim 29, wherein the holes of each row are offset from the holes of an adjacent row.

31. A receptacle according to claim 29 or claim 30, wherein a row of holes is located around 150mm from the second end of the body member.

32. A receptacle according to any one of claims 20 to 31, wherein the receptacle includes a liquid for entraining with the waste during an emptying operation.

33. A receptacle according to any one of claims 20 to 32, and further including restriction means for restricting the size of waste placed in the receptacle, the restriction means not substantially impeding the movement of waste being out through the opening in response to the suction.

34. A receptacle according to claim 33, wherein the restriction means is at least one plate that in response to the suction moves from a waste-receiving position wherein the or each plate lies across the body member to restrict the size of waste

placed therein, and waste emptying position wherein the plate is aligned substantially parallel to the longitudinal axis of the body member.

35. A receptacle according to claim 33 or claim 34, wherein the restriction means is incorporated in an insert that is attachable to the body member.

5 36. A method for emptying waste from a tubular-shaped waste receptacle having a mouth and inlet means to permit atmospheric air to be drawn into the receptacle, the method including the steps of:

(f) applying a vacuum to the mouth of the receptacle to cause air from the atmosphere to enter the receptacle through the inlet means; and

10 (g) increasing the velocity of the air once inside the receptacle to assist in drawing waste contained in the receptacle out through the mouth of the receptacle.

37. A method according to claim 36, wherein the step of increasing the velocity is effected by a venturi device located in the receptacle.

15 38. A method according to claim 37, wherein the venturi device is a member that divides the receptacle along at least part of its length into an inner region and an outer region, the member having an aperture, such that the velocity of air moving in response to the suction from the outer area to the inner area increases due to a venturi effect, as it passes through the aperture.

20 39. A method according to any one of claims 36 to 38, and further including the step of adding a liquid and optionally a deodoriser to the receptacle after the waste is removed, the liquid entraining with the waste when the receptacle is emptied.